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## **ABSTRACT**

## A compound of formula (1):

wherein each of R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, R<sub>4</sub>, R<sub>7</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>15</sub>, R<sub>16</sub>, R<sub>17</sub>, and R<sub>17</sub>, independently, is hydrogen, hydroxy, amino, carboxyl, oxo, halo, sulfonic acid, -O-sulfonic acid, or alkyl that is optionally inserted with -NH-, -N(alkyl)-, -O-, -S-, -SO-, -SO<sub>2</sub>-, -O-SO<sub>2</sub>-, -SO<sub>2</sub>-O-, -SO<sub>3</sub>-O-, -CO-O-, -CO-O-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -N(alkyl)-CO-, and further optionally substituted with hydroxy, halo, amino, carboxyl, sulfonic acid, or -O-sulfonic acid; R<sub>3</sub> is X-Y-, wherein X is hydrogen, amino, carboxyl, halo, sulfonic acid, -O-sulfonic acid, or alkyl; Y is -S-, -NH-, -N(alkyl)-, -SO-, -SO<sub>2</sub>-, -O-SO<sub>2</sub>-, -SO<sub>2</sub>-O-, -SO<sub>3</sub>-O-, -CO-, -CO-O-, -CO-NH-, -CO-N(alkyl)-, -NH-CO-, or -N(alkyl)-CO-; R<sub>5</sub> and R<sub>6</sub>, together, are -O-; or R<sub>5</sub> and R<sub>6</sub>, together, are a double bond between C-5 and C-6, and R<sub>7</sub> is oxo; each of R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>13</sub>, and R<sub>14</sub>, independently, is hydrogen, alkyl, haloalkyl, hydroxyalkyl, alkoxy, hydroxy, or amino; and n is 0, 1, or 2. Also disclosed are a method of treating hypocholesterolemia and a method of screening for an LXR agonist by administering a compound described above, a pharmaceutical composition containing at least one of the compounds described above, and an antibody against 5α, 6α-epoxycholesterol-3-sulfate or 7-ketocholesterol-3-sulfate.

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